

WHAT IS CLAIMED IS:

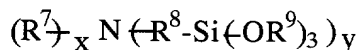
1. An adhesive composition comprising

- a) i) a trialkoxysilane functional polyether or polyurethane wherein the polyether or polyurethane has a weight average molecular weight of 6000 or greater and a dialkyltin carboxylate or dialkyltin alcoholate; or  
ii) a dialkoxysilane functional polyether or polyurethane and a dialkyltin alcoholate; and

b) a primary or secondary amino straight chain alkyl trialkoxysilane;

wherein the dialkyltin carboxylate or dialkyltin alcoholate is present in an effective amount to facilitate bonding of the adhesive to a substrate of from about 0.1 to about 1.0 percent by weight based on the weight of the adhesive and the primary or secondary amino straight chained alkyl trialkoxysilane is present in an amount which is effective to facilitate bonding of the adhesive to a substrate wherein the amount is from about 0.5 to about 1.2 percent by weight.

2. The composition according to Claim 1 wherein the amino alkyl trialkoxysilane corresponds to the formula



wherein

$R^7$  is independently in each occurrence a straight chain alkyl or aminoalkyl;

$R^8$  is independently in each occurrence a straight chain alkylene group;

$R^9$  is independently in each occurrence an alkyl group;

$x$  is independently in each occurrence an integer of 0 or 1; and

$y$  is an integer of 1 or 2;

wherein  $x+y$  is 2 or less.

3. The adhesive of Claim 2 wherein

$R^7$  is independently in each occurrence  $C_{1-6}$  alkyl or  $C_{1-6}$  alkylamino;

$R^8$  is independently in each occurrence  $C_{1-6}$  alkylene; and

$R^9$  is independently in each occurrence  $C_{1-6}$  alkyl.

4. The adhesive of Claim 3 wherein

$R^7$  is independently in each occurrence  $C_{1-3}$  alkyl or  $C_{1-3}$  alkylamino;

$R^8$  is independently in each occurrence  $C_{2-4}$  alkylene; and

$R^9$  is  $C_{1-2}$  alkyl.

5. The adhesive of Claim 3 wherein the

$R^7$  is ethylamino;

$R^8$  is propylene; and

$R^9$  is methyl.

6. The adhesive of Claim 5 wherein

x is 0 and

y is 2.

7. The adhesive of Claim 2 wherein the catalyst is a dialkyltin alcoholate.

8. The adhesive of Claim 7 wherein the catalyst is present in an amount of from about 0.1 to about 0.5 percent by weight.

9. The adhesive of Claim 8 wherein the catalyst is a dialkyltin bis acetylacetonate.

10. An adhesive composition according to Claim 1 wherein the trialkoxysilane functional polyether or polyurethane has a polyether or polyurethane backbone having a weight average molecular weight of about 10,000 or greater.

11. A method of bonding a window into a structure which comprises applying to a window or the window frame an adhesive according to Claim 1; contacting

the window and the window from a structure with the adhesive located between the window and the structure and allowing the adhesive to cure.

12. A method of bonding according to Claim 11 wherein the window structure has a coating and the coating is not primed prior to being contacted with the adhesive.

13. The method according to Claim 11 wherein the window has a ceramic frit deposited on the surface to be contacted with the adhesive and the window is not primed prior to being contacted with the adhesive.

14. The method according to Claim 11 wherein the aminoalkyl trialkoxysilane corresponds to the formula



wherein

$R^7$  is independently in each occurrence a straight chain alkyl or aminoalkyl;

$R^8$  is independently in each occurrence a straight chain alkylene group;

$R^9$  is independently in each occurrence an alkyl group;

X is independently in each occurrence an integer of 0 or 1; and

Y is an integer of 1 or 2.

15. The method of Claim 14 wherein

$R^7$  is independently in each occurrence  $C_{1-3}$  alkyl or  $C_{1-3}$  alkylamino;

$R^8$  is independently in each occurrence  $C_{2-4}$  alkylene; and

$R^9$  is independently in each occurrence  $C_{1-2}$  alkyl.

16. The method of Claim 14 wherein the

$R^7$  is ethylamino;

R<sup>8</sup> is propylene; and

R<sup>9</sup> is ethyl or methyl.

17. The method of Claim 16 wherein

x is 0 and

y is 2.

18. The method of Claim 14 wherein the catalyst is a dialkyltin alcoholate.

19. The method of Claim 18 wherein the catalyst is present in an amount of from about 0.1 to about 0.5 percent by weight.

20. The method of Claim 18 wherein the catalyst is a dialkyltin bis acetylacetonate.

21. The method according to Claim 14 wherein the trialkoxysilane functional polyether or polyurethane has a polyether or polyurethane backbone having a weight average molecular weight of about 10,000 or greater.